

INTERNET COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

INVITATION TO PAY ADDITIONAL FEES

(PCT Article 17(3)(a) and Rule 40.1)

受領印
2004. 2. 23
國際郵政
特許事務所

Date of mailing
(day/month/year) 19/02/2004

Applicant's or agent's file reference
CFO17629WO

PAYMENT DUE within 45 ~~XXXX~~ days
from the above date of mailing

International application No.
PCT/JP 03/13073

International filing date
(day/month/year) 10/10/2003

Applicant

CANON KABUSHIKI KAISHA

- ## 1. This International Searching Authority

- (i) considers that there are 3 (number of) inventions claimed in the international application covered by the claims indicated ~~below~~ on the extra sheet:

and it considers that the international application does not comply with the requirements of unity of invention (Rules 13.1, 13.2 and 13.3) for the reasons indicated below/on the extra sheet:

- (ii) ☒ has carried out a partial international search (see Annex) ☐ will establish the international search report on those parts of the international application which relate to the invention first mentioned in claims Nos.:

see annex

- (iii) will establish the international search report on the other parts of the international application only if, and to the extent to which, additional fees are paid

- 2. The applicant is hereby invited, within the time limit indicated above, to pay the amount indicated below:**

EUR 945,00	x	2	=	EUR 1.890,00
Fee per additional invention		number of additional inventions		total amount of additional fees

$$\text{Or, } \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

The applicant is informed that, according to Rule 40.2(c), the payment of any additional fee may be made under protest, i.e., a reasoned statement to the effect that the international application complies with the requirement of unity of invention or that the amount of the required additional fee is excessive.

3. ☐ Claim(s) Nos. _____ have been found to be unsearchable under Article 17(2)(b) because of defects under Article 17(2)(a) and therefore have not been included with any invention.

Name and mailing address of the International Searching Authority



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EINSCHREIBEN

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This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-17

A sensor for detecting information and outputting light according to the information;... comprising:
an active layer in which light emission is limited by influence of the selection of a photoelectromagnetic field mode,
wherein the light emission is changed according to a change in the environmental condition.

2. Claims: 18-20

A sensor using a microcavity laser, wherein one of two supporting substances capable of making specific binding with a substance to be detected is supported on a peripheral portion of the micro-optical cavity,...

3. Claims: 21, 22

A sensor comprising a micro-optical cavity of a microcavity laser and a probe for generating mechanical deformation on the micro-optical cavity,
wherein a state of the mechanical deformation is detected by measuring a change in laser oscillation state, ...

The single general concept of independent apparatus Claims 1, 18 and 21 is the following:

A sensor comprising a micro-optical cavity being suitable to determine certain parameters.

This concept is not new; see e.g. US-A- 5754333.

Consequently, this concept is not new or inventive.

It should be noted that according to Claim 1 the "active layer", to Claim 18 "two supporting substances... supported on a peripheral portion of the micro-optical cavity" and to Claim 21 "a probe for generating mechanical deformation" are essential.

Thus, no common inventive object of these concepts can be seen. Therefore, these concepts lack unity.

Patent Family Annex

Information on patent family members

International Application No

PCT/JP 03/13073

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5754333	A	19-05-1998	FR 2734093 A1 DE 69615263 D1 DE 69615263 T2 EP 0742614 A1 JP 9005810 A	15-11-1996 25-10-2001 27-06-2002 13-11-1996 10-01-1997
JP 10284806	A	23-10-1998	NONE	
US 5892586	A	06-04-1999	FR 2747192 A1 EP 0800075 A1 JP 10030983 A	10-10-1997 08-10-1997 03-02-1998
US 5500540	A	19-03-1996	AU 2383995 A WO 9528744 A1	10-11-1995 26-10-1995
US 6327287	B1	04-12-2001	US 6181717 B1 AU 5267500 A TW 476175 B WO 0076039 A1 US 6321003 B1 US 2001017876 A1	30-01-2001 28-12-2000 11-02-2002 14-12-2000 20-11-2001 30-08-2001
JP 10337173	A	22-12-1998	NONE	

Annex Form PCT/ISA/206
COMMUNICATION RELATING TO THE RESULTS
OF THE PARTIAL INTERNATIONAL SEARCH

International Application No
PCT/JP 03/13073

1. The present communication is an Annex to the invitation to pay additional fees (Form PCT/ISA/206). It shows the results of the international search established on the parts of the international application which relate to the invention first mentioned in claims Nos.:
- 1-17
2. This communication is not the international search report which will be established according to Article 18 and Rule 43.
3. If the applicant does not pay any additional search fees, the information appearing in this communication will be considered as the result of the international search and will be included as such in the international search report.
4. If the applicant pays additional fees, the international search report will contain both the information appearing in this communication and the results of the international search on other parts of the international application for which such fees will have been paid.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 754 333 A (MOLVA ENGIN ET AL) 19 May 1998 (1998-05-19)	1
A	column 13, line 32 -column 14, line 3 column 14, line 66 -column 15, line 4; figures 5-7, 10B ---	5, 7, 14
Y	JP 10 284806 A (CANON INC) 23 October 1998 (1998-10-23) cited in the application see also Patent Abstract of Japan abstract ---	1
A	US 5 892 586 A (MOLVA ENGIN ET AL) 6 April 1999 (1999-04-06) column 2, line 29 -column 3, line 29 column 5, line 38 - line 59; figure 3 ---	1, 5, 16, 17
A	US 5 500 540 A (JEWELL JACK L ET AL) 19 March 1996 (1996-03-19) column 1, line 13 - line 18 column 3, line 34 - line 60; figures 1-4 ---	1, 16
A	US 6 327 287 B1 (KNER PETER ET AL) 4 December 2001 (2001-12-04) column 12, line 31 -column 13, line 67; figures 23-30 ---	1, 5
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

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Annex Form PCT/ISA/206
COMMUNICATION RELATING TO THE RESULTS
OF THE PARTIAL INTERNATIONAL SEARCH

International Application No
PCT/JP 03/13073

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 10 337173 A (RIKAGAKU KENKYUSHO) 22 December 1998 (1998-12-22) cited in the application see Patent Abstract of Japan abstract -----	1

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